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L1: Entry 1 of 2

File: JPAB

Dec 18, 1998

PUB-NO: JP410336788A

DOCUMENT-IDENTIFIER: JP 10336788 A

TITLE: DAMPER FOR SPEAKER AND MANUFACTURE OF THE SAME

PUBN-DATE: December 18, 1998

INVENTOR-INFORMATION:

NAME	COUNTRY
SHINGU, FUMITERU	
MIYASHITA, KIYOTAKA	

ASSIGNEE-INFORMATION:

NAME	COUNTRY
FOSTER ELECTRIC CO LTD	

APPL-NO: JP09154495

APPL-DATE: May 27, 1997

INT-CL (IPC): H04 R 9/02; H04 R 1/06; H04 R 31/00

ABSTRACT:

PROBLEM TO BE SOLVED: To integrate a damper main body, and to simplify manufacture by forming flat cotton braided limes of, and integrating them with a damper main body by the thermal fusion of a band-shaped polyurethane provided between the damper main body and the cotton braided wires.

SOLUTION: A damper 1 is shaped like a ring, and a pair of flat cotton braided wires 5 are arranged through a band-shaped polyurethane 6 from an outer peripheral edge 3 to an inner peripheral edge 4 of a damper main body 1A along the shape of plural liquid corrugation 2 shaped like a concentric circuit on one face (a) of the damper main body 1A on which the corrugation 2 is formed. This polyurethane 6 is constituted of soft polyurethane from, and the wires 5 and the damper main body 1A are integrated by the fusion. That is, they are integrated at the time of molding the damper, and the polyurethane 6 and the wires 5 are adhered to the damper main body 1A in a shape along the projection and recession of the corrugation 2 so that a thin structure can be obtained as a whole. Thus, adhesion can be improved, and a stable damper 1 can be obtained.

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L1: Entry 2 of 2

File: DWPI

Dec 18, 1998

DERWENT-ACC-NO: 1999-113263

DERWENT-WEEK: 199913

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TITLE: Damper for speaker used for audio equipment - comprises polyurethane! strip thermally bonded to damper, with thin silver thread provided in between

PATENT-ASSIGNEE:

ASSIGNEE	CODE
FOSTER DENKI KK	FOSTN

PRIORITY-DATA: 1997JP-0154495 (May 27, 1997)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 10336788 A</u>	December 18, 1998		005	H04R009/02

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 10336788A	May 27, 1997	1997JP-0154495	

INT-CL (IPC): H04 R 1/06; H04 R 9/02; H04 R 31/00

ABSTRACTED-PUB-NO: JP 10336788A

BASIC-ABSTRACT:

NOVELTY - A cloth base material is loaded to a damper (1) from its periphery (3) to the internal circumference (4), forming concentric circular corrugations (2). Strip-shaped polyurethane (6) is thermally bonded to the damper and a thin silver thread (5) is provided between the damper and the polyurethane.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for manufacturing method of a damper.

USE - For speaker used for various audio equipment.

ADVANTAGE - Offers thin shaped speaker with excellent tracking property.

DESCRIPTION OF DRAWING(S) - The figure represents perspective view of damper.

(1) Damper; (2) Corrugation; (3) Periphery of damper; (4) Internal circumference of damper; (5) Silver thread; (6) Polyurethane.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: DAMP SPEAKER AUDIO EQUIPMENT COMPRISE STRIP THERMAL BOND DAMP THIN SILVER THREAD

DERWENT-CLASS: A25 A85 V06

CPI-CODES: A05-G01E; A12-E12;

EPI-CODES: V06-E01; V06-G09; V06-J01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P1592*R F77 D01 Polymer Index [1.2] 018 ; ND01 ; Q9999
Q7501 ; B9999 B4002 B3963 B3930 B3838 B3747 ; B9999 B3974*R B3963 B3930 B3838 B3747
; K9552 K9483 ; K9687 K9676 ; K9676*R ; K9712 K9676 ; K9405 ; B9999 B5243*R B4740 ;
K9416

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-033458

Non-CPI Secondary Accession Numbers: N1999-083134

WEST

L3: Entry 1 of 2

File: JPAB

Feb 8, 2000

PUB-NO: JP02000041296A

DOCUMENT-IDENTIFIER: JP 2000041296 A

TITLE: DAMPER FOR SPEAKER AND ITS MANUFACTURE

PUBN-DATE: February 8, 2000

INVENTOR-INFORMATION:

NAME

COUNTRY

SHINGU, FUMITERU

ICHIKAWA, KAZUHIRO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

FOSTER ELECTRIC CO LTD

APPL-NO: JP10208040

APPL-DATE: July 23, 1998

INT-CL (IPC): H04 R 9/02

ABSTRACT:

PROBLEM TO BE SOLVED: To obtain a damper for speaker where manufacture is facilitated with excellent tracking performance and suitable for a thin profile of the speaker and its manufacturing method.

SOLUTION: In a speaker damper where a tinsel wire is mounted on one face (a) of a damper body 1A with a plurality of concentric corrugations 2 obtd. by thermally forming a cloth base, along the shape of the corrugations 2 in the direction tying an outer circumferential end 3 and an inner circumferential end 4 of the damper body 1A, round braid tinsel wire 5 is adopted for the tinsel wire and the tinsel wire is integrated by thermal melting of a strip polyurethane 6 provided between the damper body 1A and the round braid tinsel wire 5.

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L3: Entry 2 of 2

File: DWPI

Feb 8, 2000

DERWENT-ACC-NO: 2000-240162

DERWENT-WEEK: 200031

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TITLE: Damper for voice coil of speaker, has round braid silver thread integrated to damper main portion via strip-shaped polyurethane

PATENT-ASSIGNEE:

ASSIGNEE	CODE
FOSTER DENKI KK	FOSTN

PRIORITY-DATA: 1998JP-0208040 (July 23, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<u>JP 2000041296 A</u>	February 8, 2000		005	H04R009/02

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP2000041296A	July 23, 1998	1998JP-0208040	

INT-CL (IPC): H04 R 9/02

ABSTRACTED-PUB-NO: JP2000041296A

BASIC-ABSTRACT:

NOVELTY - A round braid silver thread (5) is integrated to the damper main portion (1A) via strip-shaped polyurethane (6) which is thermally bonded.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for damper manufacturing method.

USE - For voice coil of speaker.

ADVANTAGE - Since silver thread is integrated via polyurethane, tracking property is improved and manufacturing of thin shaped speaker is enabled simply. The round braid silver thread is easily changed during heating position application molding time. Does not cause fracture during pressure application since weave pitch of line is gathered coarsely. As sufficient deformation and adhesion property.

DESCRIPTION OF DRAWING - The figure shows perspective diagram of damper. (1A) Damper main portion; (5) Silver thread; (6) Polyurethane.

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: DAMP VOICE COIL SPEAKER ROUND BRAID SILVER THREAD INTEGRATE DAMP MAIN PORTION STRIP SHAPE POLYURETHANE

DERWENT-CLASS: A25 A85 L03 V06

CPI-CODES: A05-G01E2; A12-E12; L03-H03;

EPI-CODES: V06-E01;

ENHANCED-POLYMER-INDEXING:

Polymer Index [1.1] 018 ; P1592*R F77 D01 ; S9999 S1649*R Polymer Index [1.2] 018 ;
ND01 ; K9416 ; N9999 N6166 ; Q9999 Q7501 ; B9999 B5243*R B4740 ; B9999 B5301 B5298
B5276 ; B9999 B5312 B5298 B5276

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-073440

Non-CPI Secondary Accession Numbers: N2000-180327